```
InsertionSort(int[] arr)
   FOR i = 1 to arr.length
     int j <-- i - 1
     int temp <-- arr[i]
     WHILE j >= 0 AND temp < arr[j]
      arr[j + 1] <-- arr[j]
      j <-- j - 1
     arr[j + 1] <-- temp
Sample Arrays:
Arr= [8, 4, 23, 42, 16, 15]
) at i=1 = 3=0 and tem= arry = 4
uhilhar [0+1] = arr[0] => arr=[1]=8
  · 3= -1
  . arr [-1+1] = temp => arrlo] =4
New-arr = [4,8,23,42,16,15]
d). at i=2 = i-1 => == 1 and temp= arri 2]=23
while arrestill = are 13 = 8
    · Z = 0
    · a [[0+1] = a [0] => arr[1] = 4
```

So the new arroy will be arrive. 4, 8, 42, 16, 15)

3) at
$$i=3$$
, $j=3-1=2$ and $tem = arr[3]=42$

While:, $arr[2+1]=arr[2] \Rightarrow arr[3]=8$

of $J=2-1=1$
 $arr[1+1]=arr[1] \Rightarrow arr[2]=23$